

HAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES
LONG BEACH 00

PART1 INPUT

IE	0.0	0.0	30.000	6.930	12.470	0.0	0.0	0.0	0.0	0.0
IF	1000.000	6.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	1080.000	12.470	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS	1105.000	12.470	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BU	1275.000	7.000	0.920	1.000	0.0	0.0	0.0	0.0	0.0	0.0
IF	1500.000	12.470	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS	1815.000	12.470	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	2055.000	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	2905.000	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	3230.000	2.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	4690.000	2.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PART2 WAVE HEIGHTS AND ELEVATIONS

STATION WAVE HEIGHT WAVE ELEVATION

0.0	9.73	19.28
1000.00	5.05	16.00
1080.00	0.0	12.47
1105.00	0.0	12.47
1275.00	0.0	0.0

1800.00	0.0	12.47
1815.00	0.0	12.47
2055.00	0.0	12.47
2905.00	2.54	14.25
3230.00	2.54	14.25
3830.00	2.89	14.49
4690.00	3.25	14.75

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = 3.25 WHICH EXCEEDS 0.5.

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 1080.00 AND 1105.00

BETWEEN 1400.00 AND 1815.00

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
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NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF BUTTER	LOCATION OF ZONE
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STATION OF GUTTER

LOCATION OF ZONE

1032.44

WINDWARD

4088.37

LEEWARD

L13-00

PART 6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
0.0	19.28		
		V17 EL=19	85
237.67	18.50		
305		V17 EL=18	85
542.92	17.50		
300		V17 EL=17	85
848.17	16.50		
163		V17 EL=16	85
1011.38	15.50		
		V17 EL=15	85
21			
1032.44	14.57		
		A13 EL=15	65
2			
1034.03	14.50		
		A13 EL=14	65
23			
1056.67	13.50		
		A13 EL=13	65
22			
1079.32	12.50		

C.B-60

23		A13 EL=14	65
1056.67	13.50		
22		A13 EL=13	65
1079.32	12.50		
1		A13 EL=12	65
1080.00	12.47		
25		NOT FLOODED	
1105.00	12.47		
245		A13 EL=12	65
1400.00	12.47		
415		NOT FLOODED	
1815.00	12.47		
254		A13 EL=12	65
2069.34	12.50		
478		A13 EL=13	65
2547.07	13.50		
1302		A13 EL=14	65
3849.43	14.50		
239		A13 EL=15	65
4088.37	14.57		
602		V17 EL=15	85
4690.00	14.75		

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES
 TRANSECT 1 LONG BEACH

PART1 INPUT

IE	0.0	0.0	20.000	6.960	12.450	0.0	0.0	0.0	0.0	0.0	0.0
IF	1000.000	8.590	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	1051.000	12.450	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IS	1667.000	12.450	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IS	2070.000	4.620	0.620	2.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	2470.000	10.140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	2580.000	9.740	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VE	2780.000	9.010	1.500	20.000	15.000	0.0	0.0	0.0	0.0	0.0	0.0
IF	2878.000	8.660	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	3223.000	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	3900.000	8.200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VE	4768.000	12.450	1.500	20.000	15.000	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PART2 WAVE HEIGHTS AND ELEVATIONS

STATION WAVE HEIGHT WAVE ELEVATION

0.0	9.71	19.25
1000.00	3.01	14.56
1051.00	0.0	12.45
1667.00	0.0	12.45
2070.00	0.0	12.45

2500.00	0.0	12.45
2700.00	0.0	12.45
2878.00	0.0	12.45
3223.00	0.0	12.45
3900.00	1.62	13.58
4768.00	0.0	12.45

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE
 BETWEEN 1051.00 AND 1657.00

PART4 LOCATION OF SURGE CHANGES

STATION.	10-YEAR SURGE	100-YEAR SURGE
NO SURGE CHANGES IN THIS TRANSECT		

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
1000.18	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
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159.42 18.50

V17 EL=19 85

372.63 17.50

V17 EL=18 85

585.85 16.50

V17 EL=17 85

~~381~~
213
799.06 15.50

V17 EL=16 85

201

V17 EL=15 85

1000.18 14.55

A12 EL=15 60

1x15 + 25x14 + 24x13 + 1x12 +

51

1001.39 14.50

A12 area 14

25
1025.59 13.50

A12 EL=14 60

51'

24
1049.79 12.50

A12 EL=13 60

1
1051.00 12.45

A12 EL=12 60

616
1057.66 12.45

ABOVE 1007R

1586
3252.83 12.50

A12 EL=12 60

516
✓ 3849.47 13.50

A12 EL=13 60

115
3964.79 13.50

A12 EL=14 60

765
4729.75 12.50

A12 EL=13 60

38
4768.00 12.45

A12 EL=12 60

ZONE TERMINATED AT END OF TRANSECT

R: T=0.11/0.61 08:35:43

LB-1

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES
 TRANSECT 3 LONG BEACH

PART1 INPUT

IE	0.0	0.0	30.000	6.910	12.360	0.0	0.0	0.0	0.0	0.0	0.0
IF	1000.000	6.400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	1080.000	9.800	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BU	1200.000	8.900	0.540	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BU	1400.000	7.800	0.750	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	1558.000	7.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VE	1682.000	6.120	0.500	12.000	4.000	0.0	0.0	0.0	0.0	0.0	0.0
IF	2166.000	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	2273.000	1.140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	2881.000	2.280	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DU	2942.000	9.230	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	3087.000	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	3270.000	12.360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS	5570.000	12.360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VE	6056.000	9.030	1.500	20.000	15.000	0.0	0.0	0.0	0.0	0.0	0.0
IF	6277.000	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	6558.000	12.360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PART2 WAVE HEIGHTS AND ELEVATIONS

STATION	WAVE HEIGHT	WAVE ELEVATION
0.0	9.64	19.11
1000.00	4.65	15.61
1080.00	2.00	13.76
1200.00	1.47	13.39
1400.00	1.27	13.25
1558.00	1.27	13.25
1682.00	1.16	13.18

1400.00	1.27	13.25
1558.00	1.27	13.25
1683.00	1.16	13.18
2166.00	1.16	13.18
2273.00	1.16	13.18
2881.00	2.12	13.85
2942.00	2.12	13.85
3087.00	2.12	13.85
3270.00	0.0	12.26
5570.00	0.0	12.26
6056.00	0.0	12.26
6277.00	0.0	12.26
6558.00	0.0	12.26

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE
 BETWEEN 3270.00 AND 5570.00

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
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NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
1049.74	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
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STATION 10-YEAR SURGE 100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER LOCATION OF ZONE
1049.74 WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
0.0	19.11	V17 EL=19	85
174.15	18.50	V17 EL=18	85
460.22	17.50		

JHT
R: T=0.13/0.59 09:05:24

JHY
UNKNOWN CP/CMS COMMAND

.FILEDEF 5 DISK LBA DATA A1
R: T=0.01/0.01 09:05:45

.FILEDEF 6 DISK WLB4 OUTPUT A1
R: T=0.01/0.01 09:05:53

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES
 TRANSECT 4 LONG BEACH

PART1 INPUT

IE	0.0	0.0	30.000	6.930	12.320	0.0	0.0	0.0	0.0	0.0
IF	1000.000	-1.250	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	1185.000	9.450	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BU	1324.000	8.240	0.580	1.000	0.0	0.0	0.0	0.0	0.0	0.0
BU	1463.000	7.200	0.720	1.000	0.0	0.0	0.0	0.0	0.0	0.0
VE	1763.000	4.900	0.500	12.000	4.000	0.0	0.0	0.0	0.0	0.0
IF	2284.000	2.600	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	2906.000	12.320	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS	4936.000	12.320	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
YF	5223.000	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	5510.000	12.320	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PART2 WAVE HEIGHTS AND ELEVATIONS

STATION WAVE HEIGHT WAVE ELEVATION

0.0	9.61	19.05
1000.00	9.61	19.05
1185.00	2.24	13.89
1324.00	1.70	13.51
1463.00	1.45	13.33

2184.00	1.18	12.14
2906.00	0.0	12.32
4936.00	0.0	12.32
5223.00	0.0	12.32
5510.00	0.0	12.32

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 2906.00 AND 4936.00

LB-4

PART4 LOCATION OF SURGE CHANGES

STATION 10-YEAR SURGE 100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER LOCATION OF ZONE

1165.89 WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER ELEVATION ZONE DESIGNATION FILE

STATION NUMBERED A ZONES AND V ZONES

STATION OF BUTTER ELEVATION ZONE DESIGNATION FHE

STATION OF BUTTER	ELEVATION	ZONE DESIGNATION	FHE
0.0	19.05		
		V17 EL=19	85
1019.60	18.50		
35		V17 EL=18	85
1055.46	17.50		
30		V17 EL=17	85
1091.31	16.50		
36		V17 EL=16	85
1127.17	15.50		
30		V17 EL=15	85
1163.02	14.50		
		V17 EL=14	85
3			
1165.89	14.42		
✓ 166		A12 EL=14	60
1334.31	13.50		
✓ 1436		A12 EL=13	60
2770.06	12.50		
✓ 136		A12 EL=12	60
2902.00	12.32		
34.00	12.02		

2906.00 12.32

2630

4936.00 12.32

574

A12 EL=12 60

5510.00 12.32

ZONE TERMINATED AT END OF TRANSECT

R: T=0.14/0.95 14:34:32

Form 6-82
with alterations

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES
TRANSECT 5 LONG BEACH

PART1 INPUT

IE	0.0	0.0	30.000	6.960	12.310	0.0	0.0	0.0	0.0	0.0	0.0
IF	1000.000	-0.200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	1122.000	9.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	1171.000	7.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BU	1450.000	6.980	0.720	2.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VE	1950.000	6.660	10.500	12.000	4.000	0.0	0.0	0.0	0.0	0.0	0.0
IF	2260.000	7.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	2272.000	3.900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	3768.000	4.200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	3914.000	12.310	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS	5511.000	12.310	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	5859.000	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	6207.000	12.310	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PART2 WAVE HEIGHTS AND ELEVATIONS

STATION	WAVE HEIGHT	WAVE ELEVATION
0.0	9.60	19.03
1000.00	9.60	19.03
1122.00	2.19	13.84
1171.00	2.19	13.84
1450.00	1.58	13.41
1950.00	0.14	12.41
2260.00	0.14	12.41
2272.00	0.14	12.41

	1.58	13.41
	0.14	12.41
	0.14	12.41
2272.00	0.14	12.41
2872.00	1.66	13.47
3768.00	2.72	13.86
3914.00	0.0	12.31
5511.00	0.0	12.31
5859.00	0.0	12.31
6207.00	0.0	12.31

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 3914.00 AND 5511.00

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
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NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
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1108.69	WINDHARD
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PART6 NUMBER OF V ZONES AND U ZONES

STATION OF GUTTER ELEVATION ZONE DESTINATION EHE

LB-5

1108.69

HINDWARD

LB-5

PART 6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER ELEVATION ZONE DESIGNATION FHF

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
0.0	19.03		
		V17 EL=19	85
1012.50	18.50		
24		V17 EL=18	85
1036.02	17.50		
23		V17 EL=17	85
1059.54	16.50		
24		V17 EL=16	85
1083.06	15.50		
24		V17 EL=15	85
1106.58	14.50		
2		V17 EL=14	85
1108.69	14.41		
286		A12 EL=14	60
1294.58	13.50		
510		A12 EL=13	60
1905.37	12.50		
418		A12 EL=12	60
2322.76	12.50		
617		A12 EL=13	60

LB-5

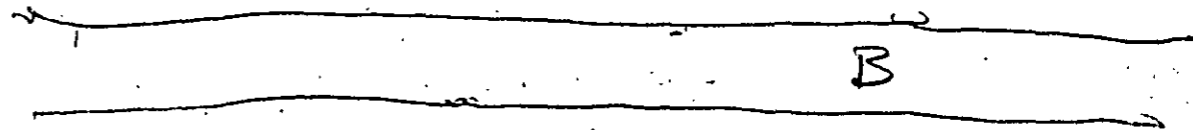
1059.54	14.50
24	
1083.06	15.50
24	
1106.58	14.50
2	
1108.69	14.41
286	
1394.58	13.50
510	
1905.37	12.50
418	
2322.76	12.50
617	
2940.51	13.50
862	
3801.98	13.50
94	
3896.11	12.50
18	
3914.00	12.31
1597	
5311.00	12.31
896	

V17	EL=16	85
V17	EL=15	85
V17	EL=14	85
A12	EL=14	60
A12	EL=13	60
A12	EL=12	60
A12	EL=13	60
A12	EL=14	60
A12	EL=13	60
A12	EL=12	60
A12	EL=12	60

B

LB-5

617		A12	EL=13	60
2740.51	13.50			
862		A12	EL=14	60
3801.98	13.50			
94		A12	EL=13	60
3896.11	12.50			
18		A12	EL=12	60
3914.00	12.31			
1547				
5511.00	12.31			
646		A12	EL=12	60
6207.00	12.31			



ZONE TERMINATED AT END OF TRANSECT

Ri T=0.16/1.1B 14:36:08

6-8-82
 NUMBER

LB 7
 YB 1

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES
 LONG BEACH 7

PART1 INPUT

IE	0.0	0.0	30.000	6.810	12.140	0.0	0.0	0.0	0.0	0.0	0.0
IF	1000.000	2.040	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	1075.000	7.040	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	1134.000	7.300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	1550.000	6.450	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VE	2129.000	12.140	0.500	12.000	4.000	0.0	0.0	0.0	0.0	0.0	0.0
AS	4129.000	12.140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VE	5093.000	4.790	1.500	20.000	15.000	0.0	0.0	0.0	0.0	0.0	0.0
IF	5129.000	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	6777.000	1.610	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	7836.000	3.530	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VE	8446.000	12.140	1.500	20.000	15.000	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PART2 WAVE HEIGHTS AND ELEVATIONS

STATION WAVE HEIGHT WAVE ELEVATION

0.0	9.47	18.77
1000.00	7.88	17.65
1075.00	3.98	14.92
1134.00	3.78	14.78
1550.00	3.78	14.78
2129.00	0.0	12.14
4129.00	0.0	12.14
5093.00	0.0	12.14

2129.00	0.0	12.14
4129.00	0.0	12.14
5093.00	0.0	12.14
5129.00	0.0	12.14
5729.00	2.19	13.67
6777.00	3.00	14.24
7836.00	3.34	14.48
8446.00	0.0	12.14

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE
 BETWEEN 2129.00 AND 4129.00

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
NO SURGE CHANGES IN THIS TRANSECT		

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
1668.89	WINDWARD
6773.07	LEEWARD
7892.59	WINDWARD

LB -7

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
0.0	18.77		
		V17	EL=19 65
241.00	18.50		

0.00 18.77
 241.00 18.50
 1004.25 17.50
 28
 1031.72 16.50
 27
 1059.19 15.50
 552
 1411.93 14.50
 57
 1448.89 14.24
 103
 1831.03 13.50
 28
 2050.12 12.50
 76
 2129.00 12.14
 204
 4129.00 12.14
 1141
 5269.96 12.50
 391
 5661.52 13.50
 1112
 6773.07 14.24
 1126
 7898.59 14.24

V17 EL=19 85
 V17 EL=18 85
 V17 EL=17 85
 V17 EL=16 85
 V17 EL=15 85
 V17 EL=14 85
 A12 EL=14 60
 A12 EL=13 60
 A12 EL=12 60
 A12 EL=12 60
 A12 EL=13 60
 A12 EL=14 60
 V17 EL=14 85

610

13

79		A12	EL=12	60
2129.00	12.14	<hr/>		
2000				13
4129.00	12.14	<hr/>		
1141		A12	EL=12	60
5269.96	12.50			
391		A12	EL=13	60
5661.52	13.50			
112		A12	EL=14	60
6773.07	14.24			
1126		V17	EL=14	85
7898.59	14.24			
102		A13	EL=14	65
8091.48	13.50			
		A13	EL=13	65
8352.16	12.50			
92		A13	EL=12	65
8446.00	12.14			

ZONE TERMINATED AT END OF TRANSECT

R# T=0.17/1.05 16:57:00

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES
LONG BEACH 7

PART1 INPUT

IE	0.0	0.0	30.000	6.810	12.140	0.0	0.0	0.0	0.0	0.0	0.0
IF	1000.000	2.040	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	1075.000	7.040	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	1134.000	7.300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	1550.000	6.450	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VE	2129.000	12.140	0.500	12.000	4.000	0.0	0.0	0.0	0.0	0.0	0.0
AS	4129.000	12.140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VE	5093.000	4.790	1.500	20.000	15.000	0.0	0.0	0.0	0.0	0.0	0.0
IF	5129.000	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	6777.000	1.610	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	7936.000	3.530	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VE	8446.000	12.140	1.500	20.000	15.000	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PART2 WAVE HEIGHTS AND ELEVATIONS

STATION WAVE HEIGHT WAVE ELEVATION

0.0	9.47	18.77
1000.00	7.99	17.65
1075.00	3.99	14.92
1134.00	3.78	14.78
1550.00	3.78	14.78
2129.00	0.0	12.14
4129.00	0.0	12.14
5093.00	0.0	12.14

5093.00	0.0	12.14
5129.00	0.0	12.14
5729.00	2.19	13.67
6777.00	3.00	14.24
7836.00	3.34	14.48
8446.00	0.0	12.14

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE
 BETWEEN 2129.00 AND 4129.00

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
NO SURGE CHANGES IN THIS TRANSECT		

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
1668.89	WINDWARD
6773.07	LEEWARD
7892.59	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
0.0	18.77		

PARTS NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
0.0	19.77		
		V17 EL=19	85
241.00	18.50		
		V17 EL=18	85
1004.25	17.50		
		V17 EL=17	85
1091.72	16.50		
		V17 EL=16	85
1059.19	15.50		
		V17 EL=15	85
1411.93	14.50		
		V17 EL=14	85
1462.89	14.24		
		A12 EL=14	60
1931.03	13.50		
		A12 EL=13	60
2050.12	12.50		
		A12 EL=12	60
2129.00	12.14		
4129.00	12.14		
1141		A12 EL=12	60

2129.00 12.14
4129.00 12.14
5269.96 12.50
5661.52 12.50
6773.07 14.24
7898.59 14.24
8091.48 12.50
8352.16 12.50
8446.00 12.14

A12 EL=12 60

A12 EL=12 60

A12 EL=13 60

A12 EL=14 60

V17 EL=14 85

A13 EL=14 65

A13 EL=13 65

A13 EL=12 65

ZONE TERMINATED AT END OF TRANSECT

17/1.05 16:57:00

Not Used in MPA file

2001

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES
 TRANSECT 2 LONG BEACH

	PART1 INPUT										
IE	0.0	0.0	20.000	6.920	12.400	0.0	0.0	0.0	0.0	0.0	0.0
IF	1078.000	6.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BU	1186.000	7.300	0.660	2.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	1883.000	9.700	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	2026.000	3.200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	2939.000	2.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	3151.000	11.400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VE	4944.000	11.600	1.500	20.000	15.000	0.0	0.0	0.0	0.0	0.0	0.0
IF	6408.000	12.400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS	6557.000	12.400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VE	6747.000	7.200	1.500	20.000	15.000	0.0	0.0	0.0	0.0	0.0	0.0
VE	7536.000	12.400	1.500	20.000	15.000	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PART2 WAVE HEIGHTS AND ELEVATIONS

STATION	WAVE HEIGHT	WAVE ELEVATION
0.0	9.67	19.17
1078.00	4.99	15.89
1186.00	3.29	14.71
1883.00	2.99	14.42
2026.00	2.99	14.42
2939.00	3.25	14.67
3151.00	0.78	12.95
4944.00	0.37	12.66
5544.00	0.37	12.66
6408.00	0.0	12.40
6557.00	0.0	12.40
6747.00	0.0	12.40
7536.00	0.0	12.40

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 6408.00 AND 6557.00

PART4 LOCATION OF SURGE CHANGES

STATION 10-YEAR SURGE 100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER LOCATION OF ZONE

1698.59 WINDWARD

2315.05 LEEWARD

2960.14 WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER ELEVATION ZONE DESIGNATION FHF

0.0	19.17		
		V17 EL=19	95
220.60	18.50		
329		V17 EL=18	95
549.66	17.50		
329		V17 EL=17	95
878.72	16.50		
775		V17 EL=16	95
1113.95	15.50		
575		V17 EL=15	95
1499.58	14.50		
0		V17 EL=14	95
1689.59	14.50		
626		A15 EL=14	75
2315.05	14.50		
0		V17 EL=14	95

2315.07	14.50	V17	EL=15	85
645				
2960.15	14.50	V17	EL=14	85
0				
2960.16	14.50	A12	EL=14	60
123				
3082.96	13.50	A12	EL=13	60
2986				
6072.81	12.50			
335				
		A12	EL=12	60
6408.00	12.40			
6557.00	12.40			
979		A12	EL=12	60
7526.00	12.40			

ZONE TERMINATED AT END OF TRANSECT

R: T=0.11/0.44 16:59:23

LB-2

1678 = 6.0

NOT USED IN MAPPING

ONLY USED THE V ZONES FOR THIS TRANSECT

GOOD

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES
LONG BEACH 0

PART1 INPUT

IE	0.0	0.0	30.000	6.960	12.450	0.0	0.0	0.0	0.0	0.0
IF	1050.000	8.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BU	1205.000	10.000	0.680	1.000	0.0	0.0	0.0	0.0	0.0	0.0
BU	1435.000	10.000	0.740	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BU	1625.000	8.000	0.920	1.000	0.0	0.0	0.0	0.0	0.0	0.0
IF	1678.000	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	2310.000	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PART2 WAVE HEIGHTS AND ELEVATIONS

STATION WAVE HEIGHT WAVE ELEVATION

0.0	9.71	19.25
1050.00	3.47	14.88
1205.00	1.91	13.79
1435.00	1.91	13.79
1625.00	1.73	13.66
1678.00	1.73	13.66
2310.00	2.31	14.07

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = 2.31 WHICH EXCEEDS 0.5.

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION 10-YEAR SURGE 100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

1096.80

WINDWARD

TRANSECT 0 Run 2

PART 6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER ELEVATION ZONE DESIGNATION FHF

LBLO

5.0
8.0

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
0.0	19.25		
		V17 EL=19	85
179.73	18.50		
		V17 EL=19	85
420.12	17.50		
		V17 EL=17	85
660.50	16.50		
201		V17 EL=16	85
900.89	15.50		
196		V17 EL=15	85
1096.80	14.55		
7		A14 EL=15	70
1103.89	14.50		
		A14 EL=14	70
1206			
2310.00	14.07		

ZONE TERMINATED AT END OF TRANSECT

R: T=0.08/0.45 15:54:21

FILE 6-82
 UNIT ALLEGATIONS

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES
 TRANSECT 9 LONG BEACH

NOT USED

PART1 INPUT

IE	0.0	0.0	30.000	6.730	11.820	0.0	0.0	0.0	0.0	0.0
IF	1000.000	4.350	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	1082.000	6.210	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VE	1925.000	10.610	1.500	20.000	15.000	0.0	0.0	0.0	0.0	0.0
VE	3740.000	9.740	1.500	20.000	15.000	0.0	0.0	0.0	0.0	0.0
IF	3775.000	11.820	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS	4571.000	11.820	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	11547.000	7.610	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	12426.000	10.210	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	12452.000	0.790	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	14152.000	7.520	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IF	14601.000	11.820	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PART2 WAVE HEIGHTS AND ELEVATIONS

STATION	WAVE HEIGHT	WAVE ELEVATION
0.0	9.22	18.27
1000.00	5.83	15.90
1082.00	4.38	14.88
1925.00	0.94	12.48
3740.00	0.54	12.20
3775.00	0.0	11.82
4571.00	0.0	11.82
5171.00	0.04	11.85
5771.00	0.11	11.90
6371.00	0.18	11.95
6971.00	0.25	12.00
7571.00	0.32	12.05
8171.00	0.40	12.10
8771.00	0.47	12.15
9371.00	0.54	12.20

9971.00	0.61	12.25
10571.00	0.68	12.30
11547.00	0.90	12.45
12426.00	0.99	12.52
12452.00	0.99	12.52
13052.00	1.95	13.19
14152.00	2.22	13.37
14601.00	0.0	11.82

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE
 BETWEEN 3775.00 AND 4571.00

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
NO SURGE CHANGES IN THIS TRANSECT		

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
1419.94	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
0.0	18.27		
		V16 EL=18	80
325.76	17.50		
421		V16 EL=17	80
746.80	16.50		
285		V16 EL=16	80
1032.19	15.50		
184		V16 EL=15	80
1216.42	14.50		

LB - 9

264		V14	EL=14	80
1419.94	13.92			
147				
		A11	EL=14	55
1547.21	13.50			
351				
		A11	EL=13	55
1918.21	12.50			
1857				
		A11	EL=12	55
3775.00	11.82			
796				
4571.00	11.82			
7632				
		A11	EL=12	55
12203.73	12.50			
2201				
		A11	EL=13	55
14404.24	12.50			
197				
		A11	EL=12	55
14601.00	11.82			

ZONE TERMINATED AT END OF TRANSECT

R: T=0.17/0.87 16:55:36

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES
LONG BEACH A (FEB 23, 1984)

PART 1 INPUT

IS	0.000	-1.000	30.000	4.930	12.470	0.000	0.000	0.000	0.000	0.000
IF	175.000	4.720	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
OU	200.000	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	500.000	4.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	800.000	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	900.000	4.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	1000.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	1200.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

PART 2 WAVE HEIGHTS AND ELEVATIONS

STATION WAVE HEIGHT WAVE ELEVATION

0.00	9.73	19.28
195.00	6.00	16.70
200.00	1.93	13.82
500.00	1.93	13.82
800.00	1.93	13.82
900.00	1.93	13.82
1000.00	1.93	13.82
3200.00	3.41	14.86

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = 3.41 WHICH EXCEEDS 0.5.

PART 3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART 4 LOCATION OF SURGE CHANGES

STATION 10-YEAR SURGE 100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART 5 LOCATION OF V ZONES

STATION OF GUTTER LOCATION OF ZONE

198.70 WINDWARD

2590.88 LEEWARD

PART 6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER ELEVATION ZONE DESIGNATION FHF

V17 EL=19 85

58.91 18.50

V17 EL=18 85

134.58 17.50

V17 EL=17 85

195.35 16.50

V17 EL=16 85

197.08 15.50

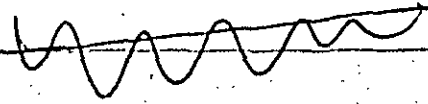
V17 EL=15 85

198.70 14.57

A15 EL=15 75

19

18



198.82 14.50

A14 EL=14 70

74

2442.57 14.50

A15 EL=15 75

15

2590.32 14.57

V17 EL=15 85

3206.00 14.86

ZONE TERMINATED AT END OF TRANSECT

Good
2/23

OK

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES
LONG BEACH 07

PART1 INPUT

IF	0.000	-1.000	30.000	6.810	12.140	0.000	0.000	0.000	0.000	0.000
IF	110.000	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	185.000	2.520	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	190.000	3.270	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	200.000	3.870	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DU	210.000	10.840	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	244.000	7.300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	660.000	6.450	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VE	1239.000	12.140	0.500	12.000	4.000	0.000	0.000	0.000	0.000	0.000
AS	3239.000	12.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VE	4203.000	4.790	1.500	20.000	15.000	0.000	0.000	0.000	0.000	0.000
IF	4239.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	5837.000	1.610	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	6946.000	3.530	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VE	7556.000	12.140	1.500	20.000	15.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

PART2 WAVE HEIGHTS AND ELEVATIONS

STATION WAVE HEIGHT WAVE ELEVATION

0.00	9.47	13.77
110.00	9.45	18.76
185.00	7.50	17.39
190.00	6.45	16.66
200.00	6.45	16.66
210.00	1.01	12.35
244.00	1.01	12.85

25" MOORE BUSINESS FORMS, INC.

660.00	1.01	12.85
1239.00	0.00	12.14
3239.00	0.00	12.14
4203.00	0.00	12.14
4239.00	0.00	12.14
5887.00	3.00	14.24
6946.00	3.34	14.48
7556.00	0.00	12.14

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 1239.00 AND 3239.00

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
---------	---------------	----------------

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
-------------------	------------------

206.35	WINDWARD
5883.07	LEEWARD
7008.59	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
-------------------	-----------	------------------	-----

0.00

18.77

V17 EL=19 85

124.15

18.50

19

V17 EL=18 85

179.09

17.50

18

V17 EL=17 85

200.41

16.50

17

V17 EL=16 85

203.04

15.50

16

V17 EL=15 85

205.66

14.50

15

V17 EL=14 85

206.35

14.24

V17 EL=14 85

A12 EL=14 60

208.29

13.50

14

A12 EL=13 60

945.34

12.50

13

A12 EL=12 60

1239.00

12.14

12

3239.00

12.14

A12 EL=12 60

4379.96

12.50

A12 EL=13 60

	0.00	18.77		
			V17 EL=19	85
	124.15	18.50		<u>19</u>
			V17 EL=18	85
	179.09	17.50		<u>18</u>
			V17 EL=17	85
	200.41	16.50		<u>17</u>
			V17 EL=16	85
	203.04	15.50		<u>16</u>
			V17 EL=15	85
	205.66	14.50		<u>15</u>
			V17 EL=14	85
	206.35	14.24		
			A12 EL=14	60
	238.29	13.50		<u>14</u>
			A12 EL=13	60
	945.34	12.50		<u>13</u>
			A12 EL=12	60
	1239.00	12.14		<u>12</u>
	3239.00	12.14		
			A12 EL=12	60
	4379.96	12.50		
			A12 EL=13	60

4771.52 13.50

A12 EL=14 60

5883.07 14.24

V17 EL=14 85

7008.59 14.24

A13 EL=14 65

7201.49 13.50

A13 EL=13 65

7462.16 12.50

A13 EL=12 65

7556.00 12.14

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES
 LONG BEACH 1 REVISED (FEB 23, 1984) EROSION INCL

PART 1 INPUT

IC	0.000	-1.000	30.000	0.000	12.470	0.000	0.000	0.000	0.000	0.000
IF	220.000	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	300.000	5.240	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CU	305.000	12.470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
AS	325.000	12.470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SU	495.000	7.000	0.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	620.000	12.470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
AS	900.000	12.470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	1500.000	1.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VE	1000.000	3.500	0.500	12.470	4.000	0.000	0.000	0.000	0.000	0.000
IF	2400.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VE	2910.000	2.500	0.500	12.470	4.000	0.000	0.000	0.000	0.000	0.000
BT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

PART 2 WAVE HEIGHTS AND ELEVATIONS

STATION WAVE HEIGHT WAVE ELEVATION

0.00	9.73	19.28
220.00	8.17	18.19
300.00	5.64	16.42
305.00	0.00	12.47
325.00	0.00	12.47
495.00	0.00	12.47
620.00	0.00	12.47
900.00	0.00	12.47
1500.00	1.09	13.23

1800.00 0.98 13.16

2400.00 2.13 13.96

3910.00 1.09 13.23

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = 1.09 WHICH EXCEEDS 0.5.

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 305.00 AND 325.00

BETWEEN 620.00 AND 900.00

PART4 LOCATION OF SURGE CHANGES

STATION 10-YEAR SURGE 100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER LOCATION OF ZONE

302.74 WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER ELEVATION ZONE DESIGNATION FHP

V17 EL=19 85

155.86 8.50

V17 EL=18 85

251.05 17.50

V17 EL=17 85

19

18

CONTINUED PREVIOUS PAGE

CONTINUOUS MEASUREMENTS © MOORE ELECTRONICS, INC.

296.27 16.50

V17 EL=16 85

301.16 15.50

V17 EL=15 65

302.34 14.57

A15 EL=15 75

17

302.43 14.50

A14 EL=14 70

303.70 13.50

A12 EL=13 60

304.96 12.50

A11 EL=12 55

305.30 12.47

C

325.00 12.47

A11 EL=12 55

12

320.00 12.47

C

300.10 12.47

A11 EL=12 55

323.62 12.50

A12 EL=13 60

13

2056.30 13.50

A14 EL=14 70

14

3356.32 13.50

AT3 EL=13 65

B

3910.00

13.23

ZONE TERMINATED AT END OF TRANSECT

CONTROL INSTRUMENTS & SUPPLY COMPANY, INC.

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES
LONG BEACH 2 REVISED (FEB 23, 1984)

PART 1 INPUT

IE	0.000	-1.000	30.000	6.960	12.450	0.000	0.000	0.000	0.000	0.000
IF	94.000	-0.450	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	150.000	1.900	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	280.000	1.900	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IU	285.000	7.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	500.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VF	1000.000	7.500	1.500	12.450	15.000	0.000	0.000	0.000	0.000	0.000
IF	2000.000	2.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VE	4500.000	9.370	1.500	12.450	15.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

PART 2 WAVE HEIGHTS AND ELEVATIONS

STATION WAVE HEIGHT WAVE ELEVATION

0.00	9.71	19.25
94.00	9.71	19.25
150.00	8.23	18.21
280.00	8.23	18.21
285.00	4.05	15.28
500.00	3.47	14.38
1000.00	2.87	14.46
2000.00	2.99	14.55
4500.00	1.65	13.61

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = 1.65 WHICH EXCEEDS 0.5.

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION 10-YEAR SURGE 100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER LOCATION OF ZONE

914.04

WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER ELEVATION ZONE DESIGNATION PHF

134.36

13.50

V17 EL=17 85

19

V17 EL=18 85

281.21

17.50

V17 EL=17 85

18

282.92

16.50

V17 EL=16 85

224.62

15.50

V17 EL=15 85

V 15

914.04

14.50

A15 EL=15 75

COPYING INSTRUCTIONS: MOORE BUSINESS FORMS, INC.

951.56 14.50

A15 EL=14 75

127

1464.98 14.50

A15 EL=15 75

15

2123.18 14.50

A14 EL=14 70

4500.00 13.61

ZONE TERMINATED AT END OF TRANSECT

CONTINUED BY INTRODUCED MC AT BUSKES POINT PC

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES
 LONG BEACH 3 REVISED (FEB 23, 1984)

PART 1 INPUT

IE	0.000	-1.000	30.000	3.910	12.350	0.000	0.000	0.000	0.000	0.000	0.000
ZF	20.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	70.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ZF	80.000	2.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	130.000	2.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	240.000	2.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
OU	245.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
OU	430.000	7.000	0.750	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	638.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VE	753.000	6.120	0.500	12.350	4.000	0.000	0.000	0.000	0.000	0.000	0.000
VE	830.000	3.010	0.500	12.350	4.000	0.000	0.000	0.000	0.000	0.000	0.000
ZF	1240.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ZF	1353.000	1.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	1957.000	2.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
OU	2020.000	0.330	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	2157.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	2380.000	12.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
AG	4650.000	12.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VL	5136.000	0.000	1.500	20.000	15.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	5357.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ZF	5538.000	12.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

PART 2 WAVE HEIGHTS AND ELEVATIONS

STATION WAVE HEIGHT WAVE ELEVATION

0.00	9.64	12.11
20.00	9.64	12.11
70.00	8.86	13.56
80.00	7.92	17.91

130.00 7.34 17.50

240.00 7.34 17.50

245.00 2.62 14.19

480.00 2.27 13.95

638.00 2.27 13.95

763.00 1.95 13.73

830.00 1.85 13.65

1245.00 1.85 13.65

1353.00 1.85 13.65

1961.00 2.12 13.85

2022.00 2.12 13.85

2167.00 2.12 13.85

2350.00 0.00 12.36

4650.00 0.00 12.36

5136.00 0.00 12.36

5597.00 0.00 12.36

5638.00 0.00 12.36

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 2350.00 AND 4650.00

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
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NO SURGE CHANGES IN THIS TRANSECT

CONFIDENTIAL - U.S. GOVERNMENT PRINTING OFFICE: 1964 O 348-100

PART 5 LOCATION OF V ZONES

STATION OF GUTTER LOCATION OF ZONE

244.60 WINDWARD

PART 6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER ELEVATION ZONE DESIGNATION FRF

70.75 18.50 V17 EL=19 85

129.74 17.50 V17 EL=18 85

241.51 16.50 V17 EL=17 85

243.02 15.50 V17 EL=16 85

244.54 14.50 V17 EL=15 85

244.60 14.46 A15 EL=14 75

2209.53 13.50 A14 EL=14 70

2332.76 12.50 A12 EL=13 60

A11 EL=12 55

19

17

14

13

2350.00 12.36

C

4550.00 12.36

A11 EL=12 55

12

5638.00 12.36

ZONE TERMINATED AT END OF TRANSECT

CAUTION: WITHDRAWAL POINTS ARE INDICATED BY

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES
 LONG BEACH 4 REVISED (FEB 23, 1984)

PART 1 INPUT

IE	0.000	-1.000	30.000	5.730	12.320	0.000	0.000	0.000	0.000	0.000
IF	110.000	3.180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	260.000	3.180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DU	265.000	7.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	390.000	5.730	0.000	0.320	0.000	0.000	0.000	0.000	0.000	0.000
DU	423.000	5.730	0.720	1.300	0.000	0.000	0.000	0.000	0.000	0.000
IF	550.000	1.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VE	1400.000	2.500	0.500	12.320	4.000	0.000	0.000	0.000	0.000	0.000
IF	1500.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VE	1866.000	12.320	0.500	12.320	4.000	0.000	0.000	0.000	0.000	0.000
AS	3924.000	17.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VE	4197.000	1.500	0.500	12.320	4.000	0.000	0.000	0.000	0.000	0.000
VE	4470.000	12.320	0.500	12.320	4.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

PART 2 WAVE HEIGHTS AND ELEVATIONS

STATION	WAVE HEIGHT	WAVE ELEVATION
0.00	9.61	19.05
110.00	7.15	17.31
260.00	7.15	17.31
265.00	3.95	15.09
390.00	3.95	15.09
423.00	3.36	14.67
550.00	3.36	14.67
1400.00	1.56	15.41

1500.00 1.56 13.41

1806.00 0.00 12.32

3894.00 0.00 12.32

4195.00 0.00 12.32

4470.00 0.00 12.32

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 1506.00 AND 3894.00

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
NO SURGE CHANGES IN THIS TRANSECT		

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
719.38	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
		V17 EL=19	85
34.64	12.50		
		V17 EL=18	85
97.99	17.50		
		V17 EL=17	85

19

17

CONTAINS INFORMATION NOT RECORDED

261.82 16.50

V17 EL=13 85

264.97 15.50

V17 EL=15 85

15

664.25 14.50

V17 EL=14 85

718.36 14.42

A14 EL=14 70

14

1343.65 13.50

A12 EL=13 60

13

11805.68 12.50

A11 EL=12 55

12

1366.00 12.32

2394.00 12.32

A11 EL=12 55

4470.00 12.32

ZONE TERMINATED AT END OF TRANSECT

CONTINUED (REVERSE) SIDE OF SHEET

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES
 LONG BEACH 5 REVISED (FEB 23, 1984)

PART 1 INPUT

TC	0.000	-1.000	30.000	5.980	12.310	0.000	0.000	0.000	0.000	0.000
IF	92.000	3.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	310.000	4.370	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DU	315.000	5.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DU	400.000	0.500	0.700	1.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	600.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VE	900.000	0.000	0.500	12.310	4.000	0.000	0.000	0.000	0.000	0.000
VE	1230.000	7.600	0.500	12.310	4.000	0.000	0.000	0.000	0.000	0.000
VE	1400.000	3.200	0.500	12.310	4.000	0.000	0.000	0.000	0.000	0.000
VE	2900.000	4.200	0.500	12.310	4.000	0.000	0.000	0.000	0.000	0.000
IF	2100.000	12.310	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
AS	4481.000	12.310	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	4839.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	5177.000	12.310	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CT	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

PART 2 WAVE HEIGHTS AND ELEVATIONS

STATION WAVE HEIGHT WAVE ELEVATION

0.00	2.60	12.03
92.00	3.69	16.98
310.00	6.19	16.65
315.00	2.12	13.84
400.00	1.86	13.61
600.00	1.86	13.61
900.00	1.37	13.27
1230.00	1.03	13.07

1400.00 0.99 13.00

2900.00 0.62 12.74

3100.00 0.00 12.31

4481.00 0.00 12.31

4829.00 0.00 12.31

5177.00 0.00 12.31

PARTS LOCATION OF AREAS ABOVE 100-YEAR SURGE
BETWEEN 3100.00 AND 4481.00

PART4 LOCATION OF SURGE CHANGES

STATION 10-YEAR SURGE 100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PARTS LOCATION OF V ZONES

STATION OF GUTTER LOCATION OF ZONE

313.92 WINDWARD

PARTS NUMBERED A ZONES AND V. ZONES

STATION OF GUTTER ELEVATION ZONE DESIGNATION FHF

V17 EL=19 85

23.87 18.50

19

V17 EL=18 85

68.30 17.50

17

V17 EL=17 85

310.26 16.50

V17 EL=16 85

312.04 15.50

V17 EL=15 85

313.33 14.50

V17 EL=14 85

14

313.99 14.41

A13 EL=14 65

705.25 13.50

A12 EL=13 60

13

3012.50 12.50

A11 EL=12 55

12

3100.00 12.31

4481.00 12.31

A11 EL=13 55

5177.00 12.31

ZONE TERMINATED AT END OF TRANSECT

CONTROL SYSTEMS & MOUNTAIN SURVEYING, INC.

6/27
2/27

#107

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES
LONG BEACH 11A

PART 1 INPUT

IE	0.000	-1.000	30.000	6.190	10.830	0.000	0.000	0.000	0.000	0.000
IF	100.000	1.330	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	335.000	1.790	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	340.000	5.590	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	400.000	5.820	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	700.000	2.670	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	1200.000	2.170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IF 9000 1.00

PART 2 WAVE HEIGHTS AND ELEVATIONS

STATION	WAVE HEIGHT	WAVE ELEVATION
0.00	8.45	15.74
100.00	7.37	15.99
335.00	7.05	15.77
340.00	4.09	13.69
400.00	3.91	13.57
700.00	3.91	13.57
1200.00	3.91	13.57

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = 3.91 WHICH EXCEEDS 0.5.

PART 3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART 4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
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NO SURGE CHANGES IN THIS TRANSECT

PART 6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
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0.00	16.74	V14 EL=17	70
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32.27	16.50	V14 EL=16	70
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335.64	15.50	V14 EL=15	70
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338.05	14.50	V14 EL=14	70
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<u>1200.00</u>	13.57		
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ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES
LONG BEACH 11A

PART 1 - INPUT

IE	0.000	-1.000	30.000	6.190	10.830	0.000	0.000	0.000	0.000	0.000
IF	100.000	1.380	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	335.000	1.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	340.000	5.590	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	400.000	5.820	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	700.000	2.670	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	1200.000	2.170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	9000.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

PART 2 WAVE HEIGHTS AND ELEVATIONS

STATION WAVE HEIGHT WAVE ELEVATION

0.00	5.45	16.74
100.00	7.37	15.99
335.00	7.05	15.77
340.00	4.09	13.69
400.00	3.91	13.57
700.00	3.91	13.57
1200.00	3.91	13.57
9000.00	4.41	13.92

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = 4.41 WHICH EXCEEDS 0.5.

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

~~NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT~~

PART4 LOCATION OF SURGE CHANGES

~~STATION 10-YEAR SURGE 100-YEAR SURGE~~

NO SURGE CHANGES IN THIS TRANSECT

~~PART6-NUMBERED-A ZONES-AND-V ZONES-~~

STATION OF GUTTER ELEVATION ZONE DESIGNATION FHF

0.00	16.74	V14 EL=17	70
32.27	16.50	V14 EL=16	70
335.64	15.50	V14 EL=15	70
332.05	14.50	V14 EL=14	70

~~9000.00 13.92~~

ZONE TERMINATED AT END OF TRANSECT

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2/23

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WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES
LONG BEACH DE

PART1 INPUT

IE	0.000	-1.000	39.000	6.980	12.190	0.000	0.000	0.000	0.000	0.000
IF	108.000	1.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	131.000	3.170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
IF	300.000	3.190	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CU	310.000	5.710	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ZU	481.000	5.000	0.640	1.000	0.000	0.000	0.000	0.000	0.000	0.000
VE	809.000	4.370	0.400	3.000	4.000	0.000	0.000	0.000	0.000	0.000
VE	1313.000	12.190	0.500	3.000	4.000	0.000	0.000	0.000	0.000	0.000
AS	3934.000	12.190	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VE	4715.000	1.000	0.500	3.000	4.000	0.000	0.000	0.000	0.000	0.000
IF	5211.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
VE	5398.000	5.710	2.000	20.000	20.000	0.000	0.000	0.000	0.000	0.000
VE	7302.000	9.710	2.000	20.000	20.000	0.000	0.000	0.000	0.000	0.000
VE	10257.000	12.190	2.000	20.000	20.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

PART2 WAVE HEIGHTS AND ELEVATIONS

STATION	WAVE HEIGHT	WAVE ELEVATION
0.00	9.51	18.85
108.00	8.14	17.39
131.00	7.04	17.11
300.00	7.02	17.10
310.00	4.27	15.18
481.00	3.42	14.58
809.00	2.37	13.85

MOORE BUSINESS FORMS, INC.

1313.00 0.00 12.19

3934.00 0.00 12.19

4715.00 0.00 12.19

5211.00 0.00 12.19

5398.00 0.00 12.19

7302.00 0.00 12.19

10257.00 0.00 12.19

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 1313.00 AND 3934.00

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
NO SURGE CHANGES IN THIS TRANSECT		

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
612.60	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
0.00	18.85		
39.08	18.50	V16	80

19

MOORE BUSINESS FORMS, INC.

V16 EL=18 80 18

119.58 17.50

V16 EL=17 80 17

303.14 16.50

V16 EL=16 80 16

308.35 15.50

V16 EL=15 80 15

518.49 14.50

V16 EL=14 80 14

612.60 14.29

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A

A11 EL=14 55

915.69 13.50

A11 EL=13 55 13

1218.98 12.50

A11 EL=12 55 12

1313.00 12.19

3934.00 12.19

A11 EL=12 55

10257.00 12.19

ZONE TERMINATED AT END OF TRANSECT